

**--Abstract of the Disclosure**

B1 A reactor apparatus and method provide for the destruction of volatile organic air-borne pollutants from gaseous streams. The reactor is a photocatalytic reactor for the destruction of organic air-borne pollutants which comprises means for admission of a gas stream carrying air-borne volatile organic pollutants into a closed tubing system; means for constraining and increasing the velocity of the gas stream while simultaneously creating a suction effect; and means for irradiating the air-borne volatile organic pollutants within the gas stream.--